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(54) AUTONOMOUS VEHICLE
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ABSTRACT

An autonomous vehicle (AV) can include a communication system to communicate with a backend system, a sensor system to collect sensor data representing an operational environment of the AV, and a control system that can process the sensor data to perform a localization operation to determine a location and an orientation of the AV within a given region, and autonomously operate the AV's acceleration, braking, and steering systems throughout the given region. Based on the localization operation, the AV can implement a set of configuration commands to configure the communication system to transmit and receive data with the backend system using one or more specified network nodes.

